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## SEQUENCE LISTING

<110> Beth Israel Deaconess Medical Center, Inc.  
Inouye, Roger T.  
Torres-Viera, Carlos  
Moellering, Robert  
Gold, Howard  
Eliopoulos, George M.

<120> METHODS AND COMPOSITIONS FOR RESTORING ANTIBIOTIC  
SUSCEPTIBILITY IN GLYCOPEPTIDE-RESISTANT ENTEROCOCCUS

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<150> U.S. 60/149,313

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&lt;212&gt; DNA

<213> *Enterococcus faecium*

&lt;400&gt; 4

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-9-

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&lt;210&gt; 5

&lt;211&gt; 27

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 5

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27

&lt;210&gt; 6

&lt;211&gt; 30

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 6

ggcgcgatg attatataac gaagcccttt

30

&lt;210&gt; 7

&lt;211&gt; 18

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 7

cgagccggaa aaaggctc

18

&lt;210&gt; 8

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 8

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20

&lt;210&gt; 9

&lt;211&gt; 27

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 9

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27

&lt;210&gt; 10

-10-

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<213> Enterococcus faecium

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<213> Enterococcus casseliflavus

<400> 11  
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<213> Enterococcus faecium

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<213> Enterococcus faecium

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<210> 16  
<211> 38  
<212> DNA  
<213> Enterococcus faecium

<400> 16  
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<210> 17  
<211> 32

-11-

&lt;212&gt; DNA

<213> *Enterococcus faecium*

&lt;400&gt; 17

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32

&lt;210&gt; 18

&lt;211&gt; 696

&lt;212&gt; DNA

<213> *Enterococcus faecium*

&lt;400&gt; 18

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ggccttacta	tctgtcaaaa	aataaggggac	aagcacacct	atccgattat	catgctgacc	240
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acggtatggg	gggtttgggtta	taaaattgaa	aaataa			696

&lt;210&gt; 19

&lt;211&gt; 1155

&lt;212&gt; DNA

<213> *Enterococcus faecium*

&lt;400&gt; 19

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aaaaggaggt	cctaa					1155

&lt;210&gt; 20

&lt;211&gt; 969

&lt;212&gt; DNA

<213> *Enterococcus faecium*

-12-

&lt;400&gt; 20

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gctcttttcgc	ctcgcttttg	cgttatggca	acgataatta	acgccaacgt	gtcggaaatcc	120
aacgccaaat	ccgcgccttt	caatcaatgt	atcagtgtgg	gacataaatc	agagatttcc	180
gcctctattc	ttcttgcgct	gaagagagcc	ggtgtgaaat	atatttctac	ccgaagcatc	240
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gcgtactcgc	cggatagcgt	tgccgattat	actatgatgc	taattcttat	ggcagtacgc	360
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gttaaagcat	tagaaaacgg	gaaactgggc	ggtgccgcat	tggatgtatt	ggaaggagag	780
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catgaatag						969

&lt;210&gt; 21

&lt;211&gt; 1032

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 21

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aaaaagaacc	atgaatatga	aatcaaccat	gttgatgtag	cattttcagc	tttgcatggc	300
aagtccgggtg	aatagggatc	catacaaggc	ctgtttgaat	tgtccggtat	cccttttgta	360
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&lt;210&gt; 22

&lt;211&gt; 609

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 22

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cgaactgaga	tgatttcaaa	aggatacgtg	gcttcaaaat	caagccatag	ccgcggcagt	360
gccattgatc	ttacgcttta	tcgattagac	acgggtgagc	ttgtaccaat	ggggagccga	420

-13-

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gttaaataa						609

&lt;210&gt; 23

&lt;211&gt; 912

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 23

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tcaggaaaca	atatagacgg	tgtaattgtg	acagtgtttc	ccggatcaac	acataactaat	900
tcaaggagggt	aa					912

&lt;210&gt; 24

&lt;211&gt; 486

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 24

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gtgtaa						486

&lt;210&gt; 25

&lt;211&gt; 19

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 25

cgaataaccgc	aagcgacag	19
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&lt;210&gt; 26

&lt;211&gt; 663

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

-14-

&lt;400&gt; 26

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taa						663

&lt;210&gt; 27

&lt;211&gt; 1344

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 27

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gaagcacagc	aaacagtaaa	atcctatcag	ccattgggtg	aactgattca	gaatagcgat	180
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&lt;210&gt; 28

&lt;211&gt; 807

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 28

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-15-

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&lt;210&gt; 29

&lt;211&gt; 972

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 29

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cagcatgaat	aa					972

&lt;210&gt; 30

&lt;211&gt; 1029

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 30

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gagaggtga						1029

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<210> 31  
 <211> 609  
 <212> DNA  
 <213> *Enterococcus faecium*

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 cgttgggcgg cgcagccgga ggacaacctc acaaaagaaa aatattacc ccaatttgag 300  
 cgagccgagt tgattacaaa gggctatgtg gcctcacaat ccagccatag ccgtggaagc 360  
 acaattgatc ttacgctcta ccacttggat acaggggaac ttgtttcaat gggaagcaac 420  
 ttcgatttta tggacgaacg gtcgcaccat acagcaaaag ggatagggaa tgcagaggca 480  
 caaaatcgaa gatgcttgcg taaaatcatg gaaagcagcg gatttcagtc ctatcgcttt 540  
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 gtttcataa 609

<210> 32  
 <211> 828  
 <212> DNA  
 <213> *Enterococcus faecium*

<400> 32  
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 ggtcaggtgt tcgcccagaa acagcctcaa gcattatata aaattgcaaa cggcagatt 660  
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 gccttaggta ccgggggaaat aatagattgc aagctgcttt atacaaacaa atgcaaaatc 780  
 tgctatcccc tcccggaaag tgtggatatt caggaggcga accaatga 828

<210> 33  
 <211> 1053  
 <212> DNA  
 <213> *Enterococcus casseliflavus*

<400> 33  
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 ctgccttatg taggtgcgg ggtggcaggt tctgccttat gtatgaacaa atggctgctg 420  
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 gccaccagc aagaacaaat cgaagctttt atccagaccc atggcttccc agttttcttt 540  
 aagcctaagc aagcgggctc ctcaaaaggg atcactaaag tcacctgcgt tgaagaaatc 600  
 gcttctgcct taaaagaagc ctttacttat tgttcgcgag tgctcctaca aaaaaatatt 660  
 gccggtgttg agatcgggtg cgggtatttt ggcaacgact ctttgactgt cgggtgcttg 720



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gctcagctgc	tctatcgtag	tcttggtctt	aaaggtcttg	ctcgcaccca	cttttttgtc	900
acggagcgcg	gagaactata	cttgaatgaa	atcaatacta	tgccgggctt	tacgagtcac	960
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ctgcttgtct	tagcaaagga	ggaagtcaaa	tga			1053

&lt;210&gt; 34

&lt;211&gt; 699

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 34

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tgtattgaat	ccgtggaaact	ggatttagcc	atattggata	tcatgcttcc	ggatgtagac	180
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&lt;210&gt; 35

&lt;211&gt; 1146

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 35

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cttttctctga	tagcgggttat	gggcgtgttt	tttatgatct	tccgccgtta	tctggacagt	300
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tcgtaa						1146

&lt;210&gt; 36

&lt;211&gt; 1071

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

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&lt;400&gt; 36

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&lt;210&gt; 37

&lt;211&gt; 969

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 37

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&lt;210&gt; 38

&lt;211&gt; 1032

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 38

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&lt;210&gt; 39

&lt;211&gt; 609

&lt;212&gt; DNA

&lt;213&gt; Enterococcus faecium

&lt;400&gt; 39

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